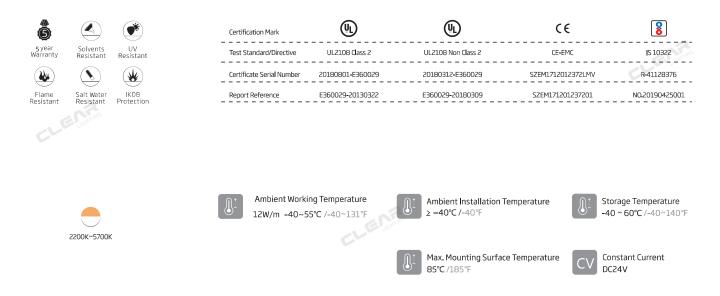
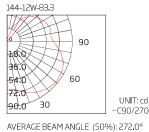
# Flexglo<sup>™</sup>F22DT - Three-side Emitting Dynamic Light (Silicone)



### C-SFR-F22DT-VB



C-SFR-F22DT-VB-24CV-22K~57K-WM-



Min. Bending Diameter 300mm/11.81in

Min. Cutting Length 83.3mm/3.28in, 12LEDs





### Note:

- ${\bf 1.} \ {\bf The} \ illuminated \ light \ length \ shall \ be \ an \ integral \ multiple \ of \ min. \ cutting \ length.$
- 2. The waterproof reliability of the lighting fixture depends on the IP rating of connector, and please make sure connector is properly assembled before installation. The highest IP rating we can achieve is IP68.

## **Item Code**





#### **Feature**

Flexglo™ F22DT Three-side Emitting Dynamic Light (Silicone) is tunable from 2200K to 5700K, setting the harmonious tone for the surrounding space. Thanks to the excellent weatherproof and UV-resistant performance of silicone material, it features a wide ambient working temperature range of -40-55°C, especially suitable for harsh environment application.

 $Multiple\,connector\,options\,are\,available\,for\,different\,applications.\,Combined\,with\,the\,adoption\,of\,the\,DryWire^{rm}$ technology,

- \*The IP68 Silicone Injection-moulded Connector is engineered for outdoor use, owing to its elegant appearance and strong adhesiveness acquired by the liquid silicone injection workmanship.
- \*The IP67 Field Assembly Connector, which is underpinned by the Insulfit™ technology that enables quick assembly in the field along with waterproof reliability (proper assembly required).

This product has an ultra-long lifespan in outdoor application by leveraging other ClearTech™ such as the PinBoost™ technology enhancing physical reliability of light engine, the TwinFlex™ technology improving the conductivity and optimizing heat dissipation performance, the C-Mask™ technology making the light body self-cleaning and anti-UV and enabling consistent illumination.

### **Electrical Parameter**

Category	C-SFR-F22DT-VB
Voltage (V)	24
Current (mA/m)	500
Power (W/m)	12
Circuit Type	CV
LED Type	3015
LEDs Qty/m	144
LEDs Qty/unit	12
Unit/m	12
Min. Cutting Length (mm)	83.3
Min. Cutting Length (in)	3.28

# **Optical Parameter**

ltem Code		Finished P	LED		
	Color	Wavelength	Lumen/m	Lumen/ft	Color Tolerance
	2200~5700K	2238±102K	350 <b>l</b> m	107 <b>i</b> m	<2.3nm
C-SFR-F22DT-VB-24CV-22-57K-WM-144-12W-83.3	2200 3700K	5669±355K	400 <b>l</b> m	122 <b>i</b> m	<2.3nm

# Max. Running Length Input: DC24V

Max. Running Length Input: DC24V								
CLE								
Туре	Snap Connector	Silicone Injection-moulded Connector						
IP Rating	IP67	IP68						
Item Code	Single-end Feed Double-end Feed	Single-end Feed Double-end Feed						
C-SFR-F22DT-12W	15m/49,2ft 30m/98,4ft	15m/49,2ft 30m/98,4ft						

- $1.\,Above\ conclusion\ is\ based\ on\ voltage\ drop\ testing\ result\ of\ the\ light\ with\ 0.3m\ (0.98ft)\ cable\ only.$
- The maximum running length is based on the light in static full loading status.
   Above running length is only the light length excluding lengths of connectors. Please refer to the specific dimension of each connector.
- 4. The delivery length might be subject to the maximum packing length.

# F22D Connector (Silicone)

Type/IP Rating	Bending Direction	Front Connector End	Front Connector Side from Left	Front Connector Side from Right	Front Connector Bottom	Seamless Middle Connector & Power Feed	Middle Connector & Power T-feed	Jumper	End Cap
Snap Connector IP67	НВ	F22D-HB-SN/FC- 01/02-E- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*3	F22D-HB-SN/FC- 01/02-SL- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*3	F22D-HB-SN/FC- 01/02-SR- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWC*3	F22D-HB-SN/FC- 01/02-B- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*3	N/A N/A	F22D-HB-SN/MC- PTF-01/02- 0.3m/1m/3m 18AWG*3	F22D-HB-SN/JU- 01/02-0.3m/1m/3m 18AWG*3	F22-HB-SN/EC- 01/02
Socket Connector IP67	НВ	F22D-HB-SO/FC- 01/02-E- 0.3m/Im/3m/5m 18AWG*3	N/A N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	F22-S0/EC
Silicone Injection- moulded _	НВ	F22D-HB-SIM/FC- 01/02-E- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*3	F22D-HB-SIM/FC- 02-SL- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*3	F22D-HB-SIM/FC-01- SR- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*3	F22D-HB-SIM/FC- 01/02-B- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*3	N/A N/A	F22D-HB-SIM/MC- PTF-0.3m/1m/3m 18AWG*3	F22D-HB-SIM/JU- 0.3m/1m 18AWG*3	F22-SIM/EC
Connector IP68	VB	F22D-VB-SJM/FC- 01/02-E- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*3	F22D-VB-SIM/FC- 01/02-SL- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*3	F22D-VB-SJM/FC- 01/02-SR- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*3	F22D-VB-SIM/FC- 01/02-B- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*3	N/A	F22D-VB-SIM/MC- PTF-0.3m/Im/3m 18AWG*3	F22D-VB-SIM/JU- 0.3m/1m 18AWG*3	F22-SIM/EC

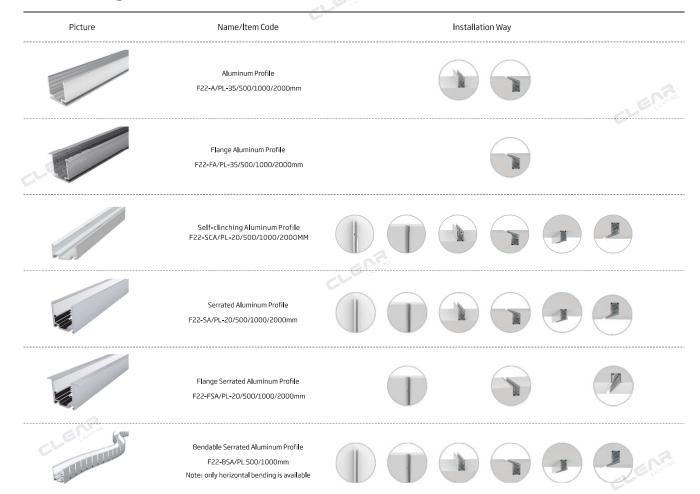
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# F22 Mounting Profile





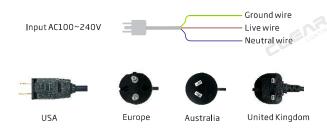
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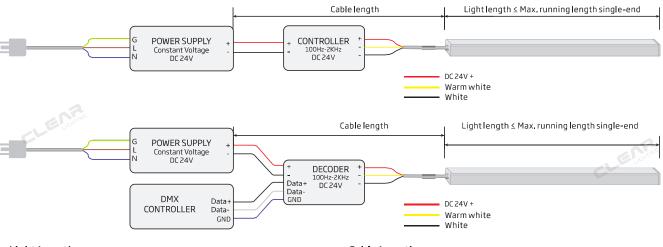
# Flexglo<sup>™</sup> F22D Wiring Diagram

- Please use a constant voltage power supply with corresponding output voltage, and rated wattage of the power supply shall be 25% more than the actual power consumption of light to increase its life expectancy;
- A compatible controller is required to achieve various light changing effects;
- 3. The rated power of controller/decoder shall be higher than the actual power consumption of light; its frequency range shall be 100~2000Hz, and 500Hz is recommended;
- 4. This wiring diagram is using the mains of AC230V with brown and blue wires as an example, and please connect with the corresponding live and neutral wires for other mains electricity;



5. Types of standard plugs are optional if power cord is purchased from CLEAR.

# Single-end Feed



### Light Length:

The length of the longest single light in parallel connection or sum of lights in series connection.

#### Cable Length:

The length of an electrical cable between power output end and light input end, and the cables for serial interconnection are inclusive.

#### How to Minimize Voltage Drop and Signal Transmission Attenuation

- $1. Please \ ensure \ the \ cable \ length \ is \ not \ more \ than \ the \ table \ "Max. Cable \ Length" \ according \ to \ light \ length \ and \ its \ wire \ gauge.$
- 2. Please ensure the light length is less than the cable "Max. Running Length Single-end Feed".
- 3.. Shielded Twisted Pair cable is required to be used to connect DMX master controller and decoder, and its length shall be less than 300m.

# Max. Running Length Single-end Feed

#### Input: DC24V

Connector Type	Snap Connector	Socket Connector	Injection-moulded Connector	Dual Injection-moulded Connector
Wire Gauge	18AWG*3	18AWG*3	18AWG*3	18AWG*3
C-FR-F22D-12W-Static full loading	10m/32.8ft(HB)	10m/32.8ft	10m/32.8ft	10m/32 <b>.</b> 8ft
C-FR-F22D-12W-Dynamic operating	20m/65.6ft(HB)	20m/65 <b>.</b> 6ft)	20m/65 <b>.</b> 6ft	20m/65 <b>.</b> 6ft
C-FR-ProF22D-12W-Static full loading	10m/32.8ft(HB)	10m/32.8ft	10m/32.8ft	10m/32 <b>.</b> 8ft
C-FR-ProF22D-12W-Dynamic operating	20m/65.6ft(HB)	20m/65 <b>.</b> 6ft	20m/65,6ft	20m/65 <b>.</b> 6ft
C-SFR-F22D-12W-Static full loading	15m/49.2ft(HB)	15m/49.2ft	15m/49.2ft	/
C-SFR-F22D-12W-Dynamic operating	30m/98.4ft(HB)	30m/98 <b>.</b> 4ft	30m/98 <b>.</b> 4ft	/
C-SFR-ProF22D-12W-Static full loading	15m/49.2ft(HB)	15m/49,2ft	15m/49 <b>.</b> 2ft	/
C-SFR-ProF22D-12W-Dynamic operating	30m/98 <b>.</b> 4ft(HB)	30m/98,4ft	30m/98 <b>.</b> 4ft	/

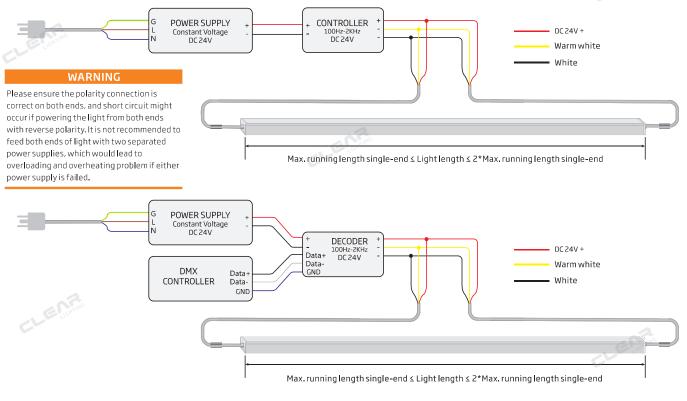
#### Note:

- $1. Above \, conclusion \, is \, based \, on \, voltage \, drop \, testing \, result \, of \, the \, light \, with \, 0.3m \, (0.98ft) \, cable \, only.$
- 2. The maximum running length is based on the light in static full loading status exceptionally stated dynamic operating.
- 3. Above running length is only the light length excluding lengths of connectors.
- 4. The delivery length might be subject to the maximum packing length.



### **Double-end Feed**

Please refer to the following wiring diagram with double-end feed to run length that is longer than max. running length for single-end feed but less than twice the value.



### Light Length:

The length of the longest single light in parallel connection or sum of lights in series connection.

#### Cable Length:

The length of an electrical cable between power output end and light input end, and the cables for serial interconnection are inclusive.

#### How to Minimize Voltage Drop and Signal Transmission Attenuation

- 1. It is optimal to position the power supply in the middle of a single light or multiple lines in daisy chain to keep the equivalent cable length on both ends for double-end feed.
- $2. Please \, ensure \, the \, cable \, length \, is \, not \, more \, than \, the \, table \, "Max. \, Cable \, Length" \, according \, to \, the \, half \, of \, light \, length \, and \, its \, wire \, gauge.$
- 3. Please ensure the light length is less than the table "Max. Running Length Double-end Feed".
- 4. Shielded Twisted Pair cable is required to be used to connect DMX master controller and decoder, and its length shall be less than 300m.

# Max. Running Length Double-end Feed

#### Input: DC24V

Connector Type	Snap Connector	Snap Connector	Injection-moulded Connector	Dual Injection-moulded Connector
Wire Gauge	18AWG*3	18AWG*3	18AWG*3	18AWG*3
C-FR-F22D-12W-Static full loading	20m/65,6ft(HB)	20m/65 <b>.</b> 6ft	20m/65 <b>.</b> 6ft	20m/65 <b>,</b> 6ft
C-FR-F22D-12W-Dynamic operating	40m/131,2ft(HB)	40m/131 <b>.</b> 2ft	40m/131,2ft	40m/131,2ft
C-FR-ProF22D-12W-Static full loading	20m/65.6ft(HB)	20m/65 <b>.</b> 6ft	20m/65.6ft	20m/65.6ft
C-FR-ProF22D-12W-Dynamic operating	40m/131.2ft(HB)	40m/131.2ft	40m/131.2ft	40m/131.2ft
C-SFR-F22D-12W-Static full loading	30m/98.4ft(HB)	30m/98 <b>.</b> 4ft	30m/98.4ft	
C-SFR-F22D-12W-Dynamic operating	60m/196 <b>.</b> 8ft(HB)	60m/196 <b>.</b> 8ft	60m/196 <b>.</b> 8ft	
C-SFR-ProF22D-12W-Static full loading	30m/98.4ft(HB)	30m/98 <b>.</b> 4ft	30m/98.4ft	/
C-SFR-ProF22D-12W-Dynamic operating	60m/196 <b>.</b> 8ft(HB)	60m/196 <b>.</b> 8ft	60m/196 <b>.</b> 8ft	/
		2/2/2		

#### Note:

- $\textbf{1.} Above \, conclusion \, is \, based \, on \, voltage \, drop \, testing \, result \, of \, the \, light \, with \, \textbf{0.3m} \, (\textbf{0.98ft}) \, cable \, only.$
- 2. The maximum running length is based on the light in static full loading status exceptionally stated dynamic operating.
- 3. Above running length is only the light length excluding lengths of connectors.
- 4. The delivery length might be subject to the maximum packing length.

# F22D Max. Cable Length (PVC)

Input: DC24V

		Cable Length										
Item Code	Light Length	0.32 mm <sup>2</sup> 22AWG		0.52	0.52 mm <sup>2</sup> 0.81 mm <sup>2</sup>		1.32 mm² 16AWG		2.07 mm <sup>2</sup> 14AWG			
	(m)			20AWG		18AWG						
		m	ft	m	ft	m	ft	m	ft	m	ft	
	1	57.0	187.0	92.6	303.9	144.3	473.4	235.1	771.4	368.7	1209.7	
	2	28.5	93.5	46.3	151.9	72.1	236.7	117.6	385.7	184.4	604.9	
	3	18.3	60.2	29.8	97.8	46.4	152.3	75.6	248.2	118.6	389.2	
	4	12.5	41.1	20.4	66.8	31.7	104.1	51.7	169.7	81.1	266.0	
C-FR-F22D-12W	5	9,1	30,0	14.9	48.7	23,1	75 <b>.</b> 9	37.7	123.7	59.1	194.0	
C-FR-ProF22D-12W	6	7.0	22.9	11.3	37.2	17.7	57.9	28.8	94.4	45.1	148.1	
	7	5,4	17,8	8,8	29.0	13.8	<b>45.</b> 1	22.4	73.6	35.2	115.4	
	8			6.8	22.4	10.6	34.9	17.4	56.9	27.2	89.3	
	9			4.8	15.8	7.5	24.6	12.2	40.1	19.2	62.8	
	10			3.1	10.3	4.9	16.0	7.9	26.0	12.4	40.8	

# F22D Max. Cable Length (Silicone)

Input: DC24V

The state of		Cable Length										
Item Code	Light Length	0.32 mm <sup>2</sup> 22AWG		0,52	? mm²	0,81 mm <sup>2</sup>		1,32 mm <sup>2</sup>		2,07 mm <sup>2</sup>		
item code	(m)			20/	20AWG		18AWG		16AWG		14AWG	
		m	ft	m	ft	m	ft	m	ft	m	ft.ch <sup>TT</sup>	
	1	55.8	183.1	90.7	297.6	141.3	463.5	230.2	755.4	361.0	1184.5	
	2	28.2	92.5	45.8	150.3	71.4	234,2	116.3	381.7	182,4	598.5	
	3	18.9	61.9	30.7	100.6	47.8	156.7	77.8	255.3	122.0	400.4	
	4	13.5	44.3	22.0	72.0	34.2	112.2	55.7	182.9	87.4	286.8	
	5	10.4	34.1	16.9	55.5	26.3	86.4	42.9	140.8	67.3	220.8	
	6	8.3	27.4	13.6	44.5	21.1	69.3	34.4	112.9	54.0	177.0	
C-SFR-F22D-12W	7			11.1	36.5	17.3	56.9	28.2	92.7	44.3	145.3	
C-SFR-ProF22D-12W	8			9.3	30.6	14.5	47.6	23.6	77.6	37.1	121.7	
	9			7.9	26.0	12.3	40.5	20.1	66.0	31.5	103.5	
	10			6.8	22.4	10.6	34.9	17.3	56.8	27.2	89.1	
	11			5.2	16.9	8.0	26.3	13.1	42.9	20.5	67.3	
	12					7.0	22.8	11.3	37.2	17.8	58.3	
	13					5.0	16.4	8.2	26.8	12,8	42.0	
	14					3.8	12.5	6.2	20.3	9.7	31.9	
•••	15					0,9	3,0	1,5	4 <b>.</b> 8	2,3	7.6	

1. Please check the wire gauge of your connector in the table "Max. Running Length".

Single-end feed, C-FR-F22D-12W, 5m light length with 18AWG wire, max. cable length should refer to the corresponding value 23.1m for 5m light length;

Double-end feed, C-FR-F22D-12W, 10m light length with 18AWG wire, max. cable length of each end should refer to the corresponding value 23.1m for half of light length 5m;

2. The above cable lengths are calculated based on 10% allowable voltage drop maximum.

